

Message

From: Praskins, Wayne [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4F47BC0A2C2E42A98347D59CD1A98B19-WPRASKIN]
Sent: 12/17/2020 6:31:30 PM
To: Robinson, Derek J CIV USN NAVFAC SW SAN CA (USA) [derek.j.robinson1@navy.mil]
Subject: RE: RESRAD BUILD

I'm open anytime Monday except 1-3. For Dave's benefit (he's Central time), before 1 would be best. How about 10?

Wayne Praskins | Superfund Project Manager
U.S. Environmental Protection Agency Region 9
75 Hawthorne St. (SFD-7-3)
San Francisco, CA 94105
415-972-3181

From: Robinson, Derek J CIV USN NAVFAC SW SAN CA (USA) <derek.j.robinson1@navy.mil>
Sent: Thursday, December 17, 2020 10:20 AM
To: Praskins, Wayne <Praskins.Wayne@epa.gov>
Subject: RE: RESRAD BUILD

Our RASO rep is out for the holidays...so I would invite Craig Bias.

From: Praskins, Wayne <Praskins.Wayne@epa.gov>
Sent: Thursday, December 17, 2020 10:15 AM
To: Robinson, Derek J CIV USN NAVFAC SW SAN CA (USA) <derek.j.robinson1@navy.mil>
Subject: [Non-DoD Source] RE: RESRAD BUILD

Who in your group would join? On my end, inclined to include Dave Hayes at the Corps.

Wayne Praskins | Superfund Project Manager
U.S. Environmental Protection Agency Region 9
75 Hawthorne St. (SFD-7-3)
San Francisco, CA 94105
415-972-3181

From: Robinson, Derek J CIV USN NAVFAC SW SAN CA (USA) <derek.j.robinson1@navy.mil>
Sent: Thursday, December 17, 2020 10:12 AM
To: Praskins, Wayne <Praskins.Wayne@epa.gov>
Subject: RE: RESRAD BUILD

Okay, I am available Monday from 10:30-1pm...and can switch some things around in the afternoon, if this time slot doesn't work for you. Please let me know.

From: Praskins, Wayne <Praskins.Wayne@epa.gov>
Sent: Thursday, December 17, 2020 10:08 AM
To: Robinson, Derek J CIV USN NAVFAC SW SAN CA (USA) <derek.j.robinson1@navy.mil>
Subject: [Non-DoD Source] RE: RESRAD BUILD

No, off tomorrow. In Monday.

Wayne Praskins | Superfund Project Manager
U.S. Environmental Protection Agency Region 9

75 Hawthorne St. (SFD-7-3)
San Francisco, CA 94105
415-972-3181

From: Robinson, Derek J CIV USN NAVFAC SW SAN CA (USA) <derek.j.robinson1@navy.mil>
Sent: Thursday, December 17, 2020 10:02 AM
To: Praskins, Wayne <Praskins.Wayne@epa.gov>
Subject: RE: RESRAD BUILD

This will be easier through a phone call, I think. Are you working tomorrow?

From: Praskins, Wayne <Praskins.Wayne@epa.gov>
Sent: Thursday, December 17, 2020 9:21 AM
To: Robinson, Derek J CIV USN NAVFAC SW SAN CA (USA) <derek.j.robinson1@navy.mil>
Subject: [Non-DoD Source] RE: RESRAD BUILD

Derek - Thanks. I am interested in continuing the dialogue, either by email or setting up a call. Please see follow up questions below.

Wayne Praskins | Superfund Project Manager
U.S. Environmental Protection Agency Region 9
75 Hawthorne St. (SFD-7-3)
San Francisco, CA 94105
415-972-3181

From: Robinson, Derek J CIV USN NAVFAC SW SAN CA (USA) <derek.j.robinson1@navy.mil>
Sent: Thursday, December 17, 2020 6:58 AM
To: Praskins, Wayne <Praskins.Wayne@epa.gov>
Subject: RE: RESRAD BUILD

Thanks Wayne. Hopefully these answers make sense to you. If not, we should have a call.

1. The basis for the decision to assess risk from the removable fraction using the "indirect ingestion pathway" rather than the "direct ingestion pathway."
 - A. Direct ingestion refers to exposure from the source itself, indirect is from the removable part of the source that has settled elsewhere. For example, direct ingestion would include eating pieces of radiological paint.
=> I'm not sure I understand. Ingestible radiological paint sounds to me like a removable fraction.
2. The basis for the 0.1 value used for the "air release fraction" in the indirect ingestion pathway.
 - A. The air release fraction is the fraction of the removable contamination that becomes suspended, resulting in some inhalation and indirect ingestion dose. The Navy using 0.10 is conservative. Consistent with the CSM, The BPRG effectively uses 0.0. To be consistent with the EPA tool, we would use a value of 0.0, so.
=> My understanding is that yes, the BPRG effectively uses 0.0. But that is because it models ingestion more like the direct ingestion option in RESRAD BUILD.
=> If you set the air release fraction in RESRAD BUILD to 0.0 (and are not using the direct ingestion pathway), wouldn't you be zeroing out the ingestion pathway? I could see an argument for setting the air release fraction to 0 if you made use of the direct ingestion option.
3. The basis for the adult ingestion rate of 0.0001 m²/hr (and 0.0002 m²/hr for children). The October 2019 Battelle memo explains why the rate was doubled for children but doesn't compare the absolute rates to the EPA calculators. If I did the math right, the effective ingestion rates in the EPA calculators are about an order of magnitude higher.

- A. The indirect ingestion rate for a receptor directly affects the dose from ingestion of deposited dust (indirect ingestion) as described in Sections E.2 and J.3.6. The default value in RESRAD represents a mean value from a probabilistic input distribution for a 16-hour exposure day to account for adults having the bulk of the exposure time and is consistent with the CSM at HPNS. This factor is one in the key contributors to the overly conservative outputs by the BPRG calculator and is not consistent with our CSM.
- => I understand the argument that the default BPRG ingestion rate is very conservative. Is your view that the lower RESRAD default ingestion value is consistent with the CSM at HPNS a site-specific one or a more general view? If it is site-specific, can you further explain?

From: Praskins, Wayne <Praskins.Wayne@epa.gov>

Sent: Wednesday, December 16, 2020 1:28 PM

To: Robinson, Derek J CIV USN NAVFAC SW SAN CA (USA) <derek.j.robinson1@navy.mil>

Subject: [Non-DoD Source] RESRAD BUILD

Derek –

We talked yesterday about some questions I had about the Navy's RESRAD BUILD evaluation of the HPNS building RGs. I thought it might be useful to put my questions in an email to you.

1. The basis for the decision to assess risk from the removable fraction using the "indirect ingestion pathway" rather than the "direct ingestion pathway."
2. The basis for the 0.1 value used for the "air release fraction" in the indirect ingestion pathway.
3. The basis for the adult ingestion rate of 0.0001 m²/hr (and 0.0002 m²/hr for children). The October 2019 Battelle memo explains why the rate was doubled for children but doesn't compare the absolute rates to the EPA calculators. If I did the math right, the effective ingestion rates in the EPA calculators are about an order of magnitude higher.

I also mentioned the "air exchange rate" but see that its basis is described in the October 2019 Battelle memo. So no need to pursue that topic further. Thanks.

Wayne Praskins | Superfund Project Manager
U.S. Environmental Protection Agency Region 9
75 Hawthorne St. (SFD-7-3)
San Francisco, CA 94105
415-972-3181